

ABSTRACT

According to one embodiment of the invention, there is provided a method of calibrating an N-port multiport test system for measurement of a DUT. The method consists of coupling each port of an N-port automatic calibration device to a respective
5 port of the N-port multiport test system, and presenting three reflection standards with the automatic calibration device to each port of the N-port multiport test system. The method also consists of providing with the automatic calibration device, N-1 through conditions of a possible $N(N-1)/2$ possible through conditions, between corresponding ports of the N-
port multiport test system, and making measurements with the N-port multiport test
10 system of the three reflection standards at each port and the N-1 through conditions between the corresponding ports. The method further consists of determining all of systematic error coefficients for all of the ports of N-port multiport test system.

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100